



# **Megapixel IP IR D/N PoE Bullet Camera** (with DC 12V / PoE) **ACM-1511 series**

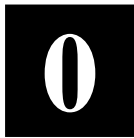
Ver. 120312

## **Hardware User's Manual**



[www.acti.com](http://www.acti.com)





# PRECAUTIONS

## 1. Read these instructions

All the safety and operating instructions should be read before the product is operated.

## 2. Heed all warnings

All warnings on the product and in the instruction manual should be adhered to.



The symbol indicates the following items, please carefully read the description next to each symbol.

- a. Failure to follow the safety instruction given may directly endanger people, cause damage to the system or to other equipment.
- b. The requirements to make this device work, including hardware, computer settings, network settings, and operation procedures.
- c. The tips to make using this device easier, more convenient and more efficient.

## 3. Servicing

Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

## Trademarks

All names used in this manual for hardware and software are probably registered trademarks of respective companies.

## Liability

Every care has been taken during writing this manual. Please inform your local office if you find any inaccuracies or omissions. We cannot be held responsible for any typographical or technical errors and reserve the right to make changes to the product and manuals without prior notice.

## FCC/CE Regulation

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses,

and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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# 1

## INTRODUCTION

### 1.1 Package Contents

ACM-1511 series  
(DC12V / PoE)



The bracket is not included

Product CD



Terminal Block for Power



Warranty Card



## 1.2 Features and Benefits

This Megapixel IP IR DN PoE Bullet Camera is a cutting-edge digital video transmission device. It can compress and transmit real time images with outstanding images quality (SXGA, 1280x1024) at reasonable bandwidth through a standard TCP/IP network. That is because it is Ethernet ready and has the powerful ARM9 SoC with excellent system performance to offer dual streams of MPEG4/MJPEG, and both formats offer megapixel resolution. In addition, with these powerful hardware platform, excellent SDK support and powerful respective apparatuses (e.g. the transcoder), this Megapixel IP IR DN PoE Bullet Camera is your best choice building up either conventional IP surveillance system or intelligent IP surveillance system.

### **MPEG-4/MJPEG Dual Streaming**

With excellent system performance, MPEG-4/MJPEG are supported. It brings superior image quality not only 30 frames per second in full VGA resolution, but also offers up to 8 frames per second in SXGA (1280x1024).

### **Digital Time Code Embedded**

The “Digital Time Code Embedded” function is to embed the recording time in the MPEG bit stream. Therefore, each image frame has its respective time when it was recorded. It is very useful when users want to find the video at an exact time or between a certain time intervals.

### **DDNS Supported**

This Megapixel IP IR DN PoE Bullet Camera supports DDNS (Dynamic Domain Name Server), users can set this Megapixel IP IR DN PoE Bullet Camera at a virtual domain name (such as cam1.Taipei.xxx) at dynamic IP. Everyone can use the virtual domain name to view the video anywhere that has the access to the internet.

### **Built-in Hardware Motion Detection**

No more external motion sensors are required. Each Megapixel IP IR DN PoE Bullet Camera can be set up to 3 detection areas. By tuning the object size and sensitivity, it is very reliable to fit into your environment. Besides, hardware motion detection delivers better sensitivity and responds faster than software motion detection.



### **Bundle Powerful Surveillance Software**

To extend the capabilities of this Megapixel IP IR DN PoE Bullet Camera, a powerful surveillance program is included in the package and is very free to use. Users can easily utilize the existing PC to be a digital video recorder. Schedule recording and manual recording keep every important image recorded in the local hard disk. Reliable and accurate motion detection with instant warning makes you responsive in every condition. Quick and simple search and playback function lets you easily find the images you want.

### **Software Development Kit Support**

This Megapixel IP IR DN PoE Bullet Camera can be integrated or controlled by user's application program through the Streaming Library or ActiveX control. With its high level programming interface, software developer's time and efforts to is highly reduced.

## 1.3 Safety Instructions

### **Don't use the power supply with other voltages**

This device is likely to be damaged or damage other equipments / personnel, if you use a power supply with different voltage than the one included with this device. All warranty of this product will be voided in the situations above.

### **Don't open the housing of the product**

### **Cleaning**

Disconnect this video product from the power supply before cleaning.

### **Attachments**

Do not use attachments not recommended by the video product manufacturer as they may cause hazards.

### **Water and Moisture**

Do not use this video product near water, for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool and the like.

### **Don't use accessories not recommended by the manufacturer**

- **Only install this device and the power supply in a dry place protected from weather**
- **Servicing**

Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

### **Damage Requiring service**

Disconnect this video product from the power supply immediately and refer servicing to qualified service personnel under the following conditions.

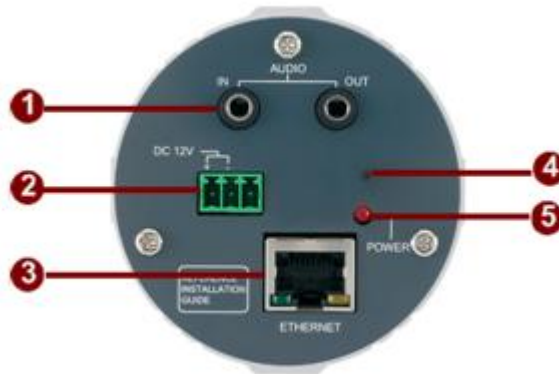
1. When the power-supply cord or plug is damaged.
2. If liquid has been spilled, or objects have fallen into the video product.
3. If the video product has been exposed to rain or water directly.
4. If the video product does not operate normally by following the

operating Instructions in this manual. Adjust only those controls that are covered by the instruction manual as an improper adjustment . Other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.

### **Safety Check**

Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.

# 1.4 Physical Description



**1. Audio Input / Output**

The Megapixel IP IR DN PoE Bullet Camera supports audio input and output with earphone jack

**2. Power Input**

If your power input is DC12V , please follow the description on the connector to connect to power.



| PIN | NAME | DESCRIPTION    |
|-----|------|----------------|
| 1   | 12V  | DC Power Input |
| 2   | GND  | Ground Pin     |

**3. Ethernet Port**

The Megapixel IP IR DN PoE Bullet Camera connects to the Ethernet via a standard RJ45 connector. Supporting NWAY, this Megapixel IP IR DN PoE Bullet Camera can auto detect the speed of local network segment (10Base-T/100Base-TX Ethernet).

**4. Reset Button**

**Step 1:** Switch off Megapixel IP IR DN PoE Bullet Camera by disconnecting the power cable

**Step 2:** Press and continue to hold the Reset Button. Reconnect

the power cable while continuing to hold the reset button.

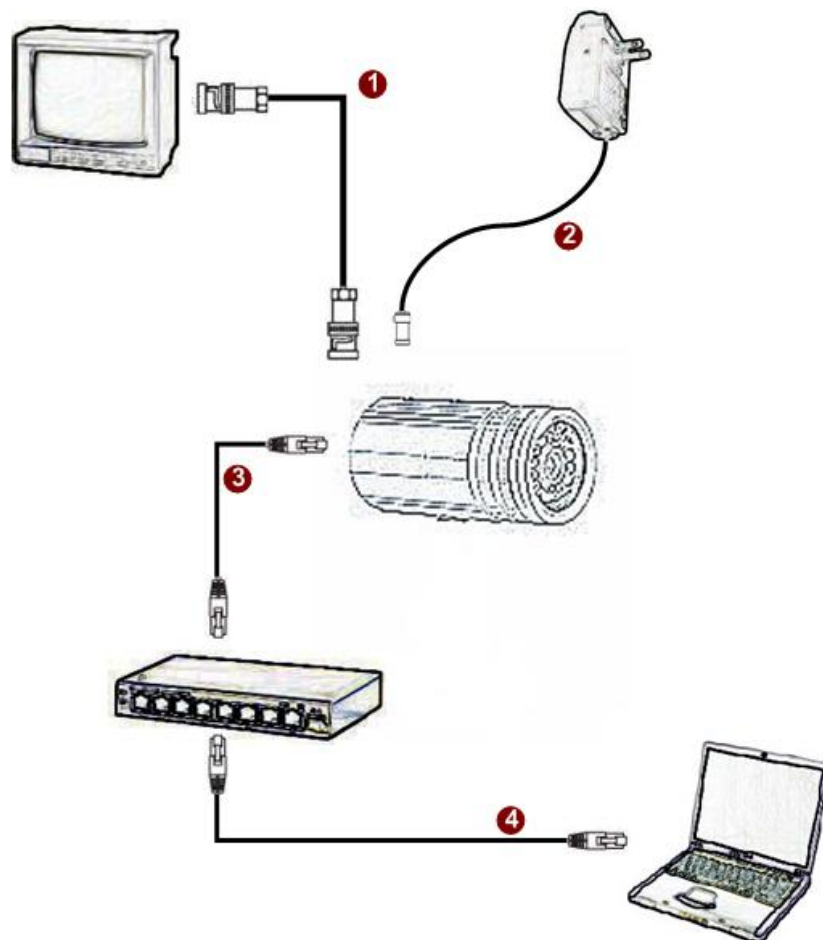
**Step 3:** Keep holding the reset button depressed for a while, release the reset button. The unit will start up with factory default settings.

**5. Power LED Indicator**

The LED indicator lights up one time upon power up. It will lights up again when this Megapixel IP IR DN PoE Bullet Camera is fully booted up.

## 1.5 Basic Connections

Follow the procedures below to connect the Megapixel IP IR DN PoE Bullet Camera to the respective apparatuses.



1. Connect the power adaptor to Megapixel IP IR DN PoE Bullet Camera
2. Connect Megapixel IP IR DN PoE Bullet Camera's ethernet port to an Ethernet (RJ45 connectors). If your Megapixel IP IR DN PoE Bullet Camera has PoE built-in, you can regard it as a PD and connect it directly to a PSE device like PoE switch.
3. Connect a PC to the Ethernet hub (RJ45 connectors)



**NOTE:** You may find a support package to help you getting familiar with PoE. Please visit our web site, and get the support document TS-00040.

## 1.6 Installation Procedure

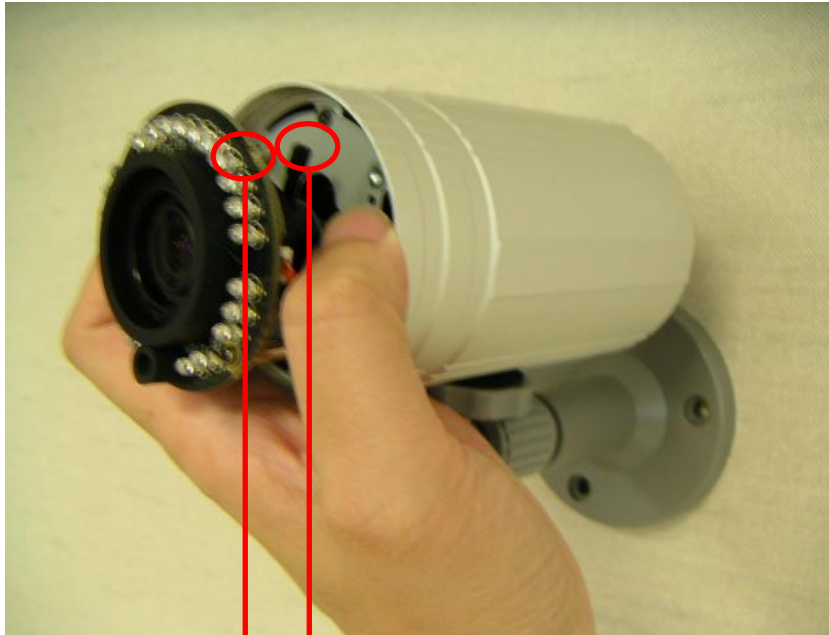
### 1.6.1 Install the camera onto bracket



### 1.6.2 Rotate camera box counter-clockwise to remove camera cover



### 1.6.3 Adjust the focus / zoom



- Zoom adjust lever

- Focus adjust lever



## 1.7 Product Specification

|                         |                     |   |
|-------------------------|---------------------|---|
|                         |                     | ACM-1511  |
| Image                   | Device              | Micron Progressive Scan CMOS  |
|                         | Size                | 1/3 inch  |
|                         | Pixels - Effective  | 1280 x 1024   |
| Min. scene Illumination | Color               | Color mode automatically switched to B/W mode under 4 Lux                                   |
|                         | B/W                 | 0Lux (IR LED ON)  |
|                         | IR Sensitivity      | from 700 nm to 1100 nm  |
|                         | IR LED              | IR LED x 24 (850nm)   |
|                         | CDS Sensor          | Yes   |
|                         | IR Working Distance | 20~30 M(30 IRE)   |
| Lens                    | Lens                | f3.3~12mm / F1.6  |
|                         | Viewing Angle       | 89.8° ~ 23.9° (Horizontal)  |
| Synchronization         | Sync. System        | Internal  |
| Functions               | Motion Detection    | Yes (3 Windows)   |
|                         | Electronic shutter  | 1/5 ~ 1/2000 sec. (60Hz)<br>1/5 ~ 1/2000 sec. (50Hz)  |
|                         | Flickerless         | 1/120 sec. (60Hz)<br>1/100 sec. (50Hz)  |
|                         | BLC                 | Yes   |
|                         | AGC                 | Automatic (User defined)  |
|                         | White Balance       | 6 Modes<br>(AUTO,INDOOR1,INDOOR2,OUTDOOR1,OUTDOOR2,<br>HOLD CURRENT,MANUAL) Configurable    |
|                         |                     |   |
| S/N Ratio               | S/N Ratio           | Better than 44 dB   |
| Video Compression       | Compression         | MPEG-4 SP ,MJPEG selectable   |
|                         | Picture Resolution  | SXGA (1280x1024)<br>HD 720 (1280x720)<br>VGA (640x480)<br>QVGA (320x240)<br>QQVGA (160x112) |
|                         | Image Frame Rate    | SXGA at 8 fps<br>HD720 at 10 fps<br>VGA at 30 fps<br>QVGA at 30 fps<br>QQVGA at 30 fps      |
|                         |                     |   |
| Audio Input             | Compression         | 8kHz, Mono, PCM   |
|                         | Audio Line Input    | Unbalanced, 1.4Vp-p, 1Vrms, terminal block  |
| Audio Output            | Compression         | 8kHz, Mono, PCM   |
|                         | Audio Line Output   | Unbalanced, 1.4Vp-p, 1Vrms, terminal block  |
| External I/O            | Reset Button        | Factory Default   |
|                         | LED                 | System Status   |
| Network                 | Ethernet            | Ethernet(10/100 Base-T), RJ45 Connector   |
|                         | Protocol            | TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP,FTP,SMTP,DNS,DDNS,NTP,ICMP,IGMP,ARP,3GPP         |
| Software                | Web Browser         | Microsoft Internet Explorer 6.0 or above  |
|                         | SDK                 | ActiveX control, C SDK  |
|                         | Security            | Password Protection: Configured by the Administrator  |
| Operating               | Temperature         | 0°C~50°C (32~122°F)   |
| Power                   | Power Requirement   | DC12V ±10%  |
|                         | Power Consumption   | 6W (DC12V) w/ IR ON<br>6.24W (PoE) w/ IR ON   |
| Physical                | Dimensions (WxHxD)  | 66 mm x 156 mm (2.6" x 6.14")   |
|                         | Weight              | 505g (1.11b)  |